

FULL BRIDGE THIN BEAM SENSORS

TBS SERIES

CAPACITY RANGES:

.25, .50, 1, 2, 5,
10, 20, 40 LBS.

The TBS Series thin beam sensors are exceptionally suited for small load measurements. They are designed to measure many different parameters found in medical instrumentation, home appliances, process control, robotics, automotive and many other high volume applications. A specially developed integrated strain gage includes all balancing, compensating and conductive elements and is laminated to the beam to provide excellent stability and reliability.



Figure 1

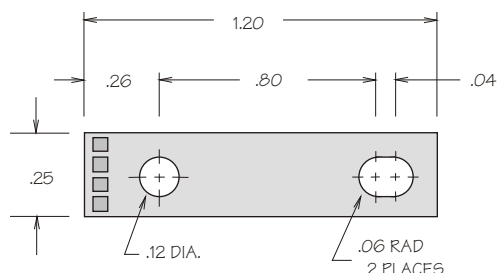
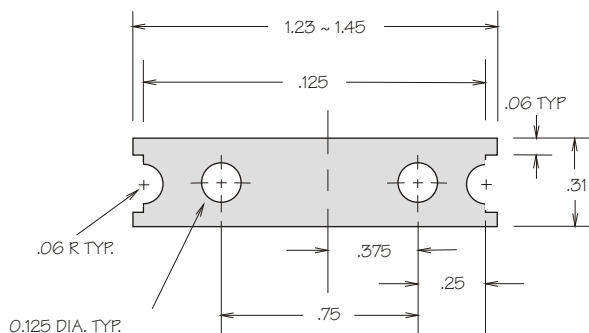
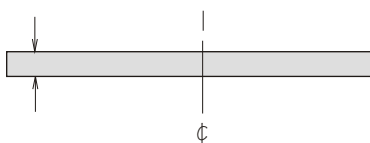


Figure 2



t for Figure 1 & 2



WIRING CODE

+EXC. RED
-EXC. BLACK
+SIG. GREEN
-SIG. WHITE

Rated Output (R.O.): 2mV/V \pm 20%
Combined Error: 0.25% full scale
Zero Balance: \pm 0.3 mV/V
Compensated Temp. Range: 20° to 120°F
Temperature Effects: Zero Balance 0.02% of FS/°F; Output 0.02%/°F
Resistance: (Input and output) 1200 ohms \pm 300 ohms
Insulation Resistance: 1000@ 50 VDC
Excitation Voltage: 10 VDC
Seal: Urethane coated
Safe Overload: 150% FS
Full Scale Deflection: 0.010 to 0.0500
Lead Wire: 9" shielded PVC four conductor 30 AWG
Material: 301 SS (beryllium copper 1/4 and 1/2 lb. units)
Deflection Inches: .025

ACCESSORIES

MODEL MOUNTING

MODEL	MOUNTING
TBS-MK-1	for TBS-.25 - TBS-5
TBS-MK-2	for TBS-10 - TBS-40

MODEL	CAPACITY LBS.	t DIMENSION	DRAWING FIGURES
TBS-.25	.25	0.006	Fig. 1
TBS-.50	.50	0.009	Fig. 1
TBS-1	1	0.011	Fig. 1
TBS-2	2	0.015	Fig. 1
TBS-5	5	0.022	Fig. 1
TBS-10	10	0.031	Fig. 2
TBS-20	20	0.044	Fig. 2
TBS-40	40	0.063	Fig. 2